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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/678,167 10/06/2003 Francine Goulet 238813US-6 DIV 22850 12/23/2004 **EXAMINER** OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. LANDREM, KAMRIN R 1940 DUKE STREET ART UNIT PAPER NUMBER ALEXANDRIA, VA 22314 3738

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/678,167	GOULET ET AL.
	Office Action Summary	Examiner	Art Unit
		Kamrin R. Landrem	3738
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1)🛛	Responsive to communication(s) filed on 14 Oc	<u>ctober 2004</u> .	
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.		
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims			
 4) ☐ Claim(s) 25-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 25-51 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 			
Application Papers			
9)☐ The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date 6) Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 43, 44, 45, 46, 47, 48, 49, 50 and 51 are rejected under 35 U.S.C. 102(e) as being anticipated by Altman (USPN6,287,340 B1).

Altman discloses the method for preparing an implant *ex vivo* for connective tissue substitution (specifically ACL) comprising the steps of providing a pair of bone anchors composed of coral or bone (abstract) and attaching these bone anchors by a support filament composed of a cylindrical 3-dimensional matrix formed of collagen gel (2:20-39). The matrix is seeded with stem cells or bone marrow stromal cells and subjected to mechanical forces (2:19-65). Osteoblast cells may be selected from a bovine species (13:62-14:22). The cells were mixed with an antibiotic, i.e. penicillin, and other pharmaceutical compounds to form the cell medium (14:36-52). The matrix and the bone anchor are coated with materials such as laminin, fibronectin, or factors containing arginine-glycine-aspartate peptides that produce enhanced bone and matrix attachment. After the incubation period fibronectin was found in the matrix layer (13:17-39). The substitute is used for connective tissue such as a tendon, cartilage or muscle.

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a bioreactor where it undergoes the application of forces to simulate the forces that would be experienced *in vivo*.

Response to Arguments

Applicant's arguments filed 10/14/04 have been fully considered but they are not persuasive. Applicant's arguments in view of Goldstein, Campbell, and Uematsu are moot in view of the above rejection. Contrary to Applicant's arguments with regards to Altman, as discussed above, Altman does in fact disclose bone anchors connected by a support filament (cylindrical 3-dimensional matrix).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kamrin R. Landrem whose telephone number is 571-272-4752. The examiner can normally be reached on 8:00-5:00, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kamrin Landrem Examiner AU 3738

krl

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700